

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002315

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' H05B33/22, H05B33/20, H05B33/26, H01H13/02, H01H9/18,
H01H13/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' H05B33/00-33/28, H01H13/00-13/76, H01H9/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 2002/097837 A1 (Shin-Etsu Polymer Co., Ltd.), 05 December, 2002 (05.12.02), Page 10, lines 23 to 27; page 16, line 22 to page 17, line 1; page 19, line 19 to page 22, line 15; Figs. 1, 12 & EP 1398808 A1	1-4, 25 5-24, 26-44
Y	JP 8-161935 A (Sunstar Giken Kabushiki Kaisha), 21 June, 1996 (21.06.96), Claim 5; Par. Nos. [0010] to [0016] & US 577038 A1	5-24, 26, 29-42
Y	JP 2003-507868 A (DUREL CORP.), 25 February, 2003 (25.02.03), Par. Nos. [0004], [0023] & WO 2001/015496 A1	5-24, 26, 29-36, 41-42

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
12 May, 2005 (12.05.05)Date of mailing of the international search report
14 June, 2005 (14.06.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Telephone No.

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PCT/JP2005/002315

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-508081 A (DUREL CORP.), 13 July, 1999 (13.07.99), Page 6, lines 3 to 17; page 11, lines 12 to 13 & US 5770920 A1	27-28, 43-44
Y	JP 11-273874 A (Matsushita Electric Industrial Co., Ltd.), 08 October, 1999 (08.10.99), Par. Nos. [0022] to [0023] (Family: none)	5-24, 26, 29-36, 41-42
Y	JP 10-188718 A (Teikoku Tsushin Kogyo Kabushiki Kaisha), 21 July, 1998 (21.07.98), Par. Nos. [0013] to [0014] (Family: none).	5-24, 26, 29-36, 41-42
Y	JP 2001-319786 A (NEC Kansai, Ltd.), 16 November, 2001 (16.11.01), Par. No. [0015] (Family: none)	9-24, 26
Y	JP 2002-50475 A (Max Co., Ltd.), 15 February, 2002 (15.02.02), Par. Nos. [0026] to [0027] (Family: none)	9-24, 26
Y	JP 2002-15872 A (Matsushita Electric Industrial Co., Ltd.), 18 January, 2002 (18.01.02), Claim 1; Par. Nos. [0014], [0022] & US 2002/0031688 A1	13-24, 26, 37-40
Y	WO 2002/080627 A2 (AGFA-GEVAERT), 10 October, 2002 (10.10.02), Page 14, lines 1 to 15 & JP 2005-501373 A	13-24, 26, 37-40
A	JP 5-8306 A (Mitsubishi Kasei Polytec Co.), 19 January, 1993 (19.01.93), Par. No. [0013] & US 5346752 A1	1-44
A	JP 11-2812 A (Toshiba Corp.), 06 January, 1999 (06.01.99), Par. No. [0052] (Family: none)	1-44
A	JP 2003-249349 A (Kureha Chemical Industry Co., Ltd.), 05 September, 2003 (05.09.03), Par. No. [0044] & US 6432516 B1	1-44